

FIG. 1

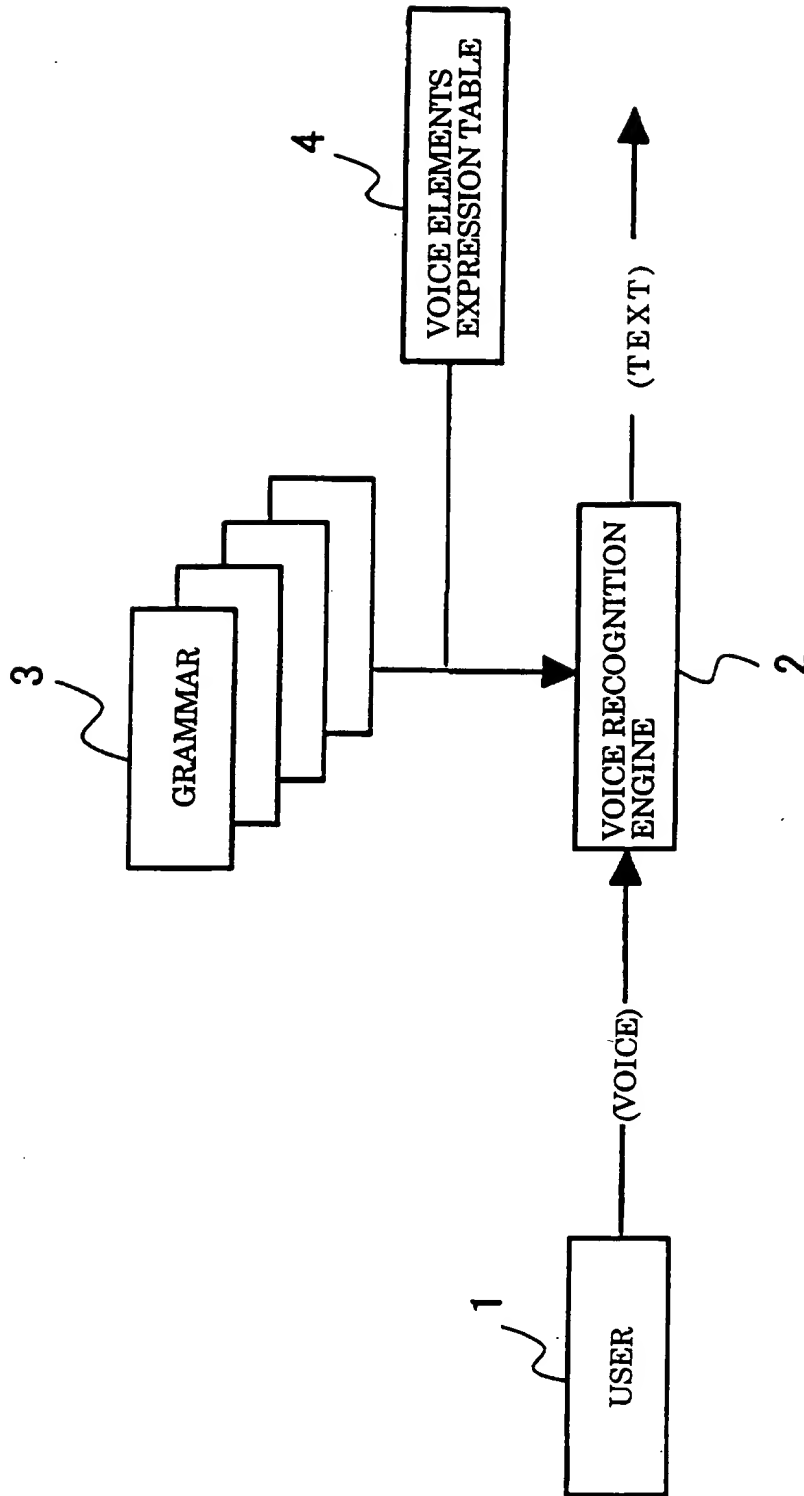


FIG. 2

0 (REI)	ree
0 (REI)	ree:
0 (REI)	rei
0 (ZERO)	zero
1	ichi
2	ni
2	nii
2	nii:
3	san
4 (SHI)	shi
4 (SHI)	shii
4 (SHI)	shii:
4 (YON)	yon
5	go
5	go o:
5	gou
6	roku
7 (SHICHI)	hichi
7 (NANA)	nana
7 (SHICHI)	shichi
8	hachi
9 (KU)	ku
9 (KYUU)	kyuu
9 (KYUU)	kyuu:

FIG. 3

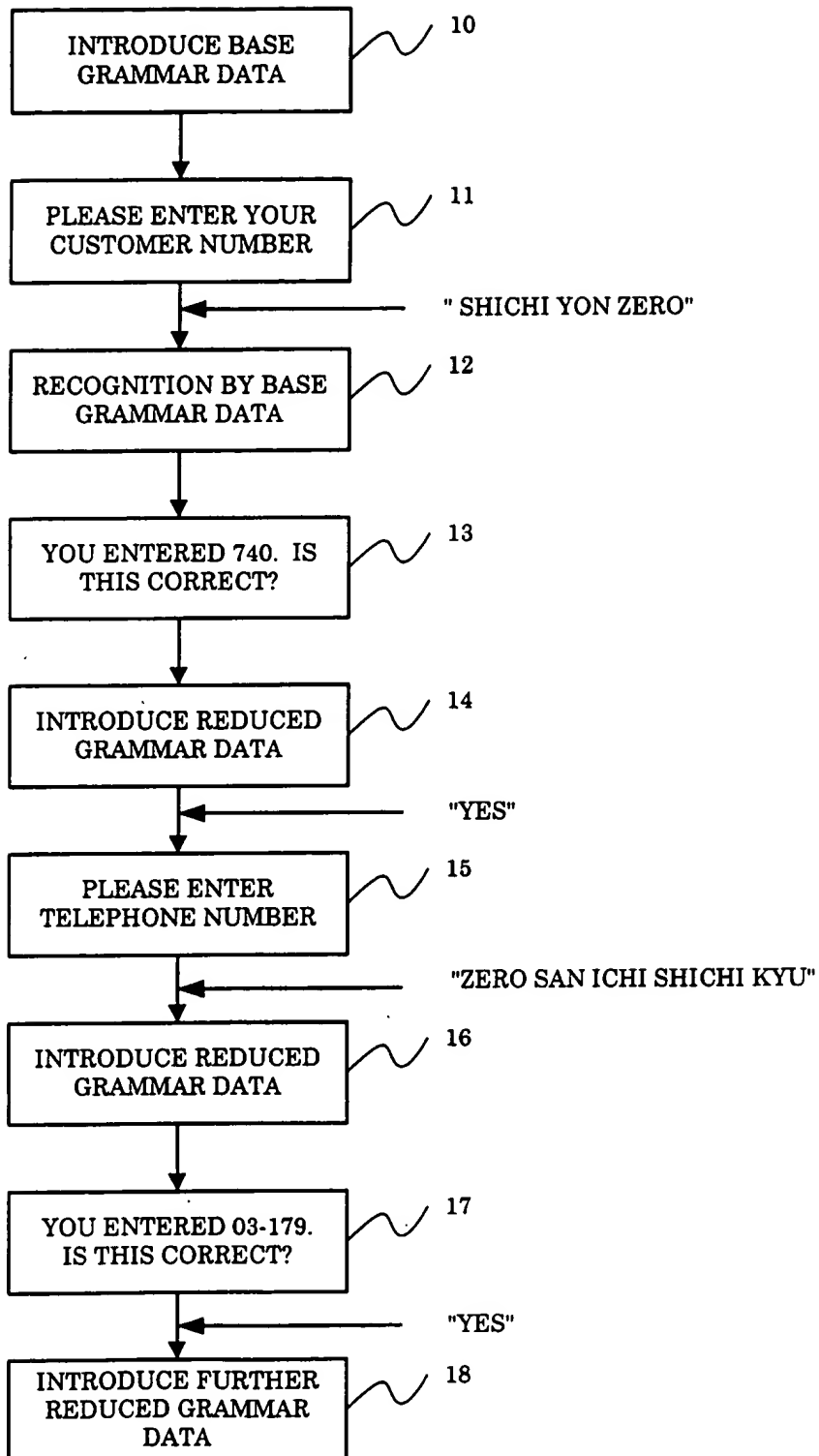


FIG. 4

<digits>::=<num1><num1><num1> .

<num1>=

0 |
1 |
2 |
3 |
4 |
5 |
6 |
7 |
8 |
9 .

<0> = | z e r o . ← 22

<1> = | i c h i .

<2> = | n i | n i i | n i i .

<3> = | s a _ n .

<4> = | y o _ n . ← 21

<5> = | g o | g o o : | g o u .

<6> = | r o k u .

<7> = | h i c h i | s h i c h i . ← 20

<8> = | h a c h i .

<9> = | k u | k y u u | k y u u : .

FIG. 5

$$\langle \text{digits} \rangle ::= \langle \text{num1} \rangle \langle \text{num1} \rangle \langle \text{num1} \rangle .$$

<num1>=

01

11

2 |

3 i

41

5 i

61

71

8 i

9.

 $\langle 0 \rangle = | \text{zero} .$
$$\langle 1 \rangle = |i \text{ ch } j|.$$
$$\langle 2 \rangle = |n_i| |n_{ii}| |n_{ii}|.$$
$$\langle 3 \rangle = |s a_n|$$

$\langle 4 \rangle = |y_{0_n}|$

$$\langle 5 \rangle = |g o| g o o: | g o u.$$

$\langle 6 \rangle = 1 \text{ roku.}$

$\langle 7 \rangle = | h i c h i | s h i c h i .$

$\langle 8 \rangle = |h a c h i|.$

$\langle 9 \rangle = | \text{ky u u} | \text{ky u u} : .$

← 23

FIG. 6

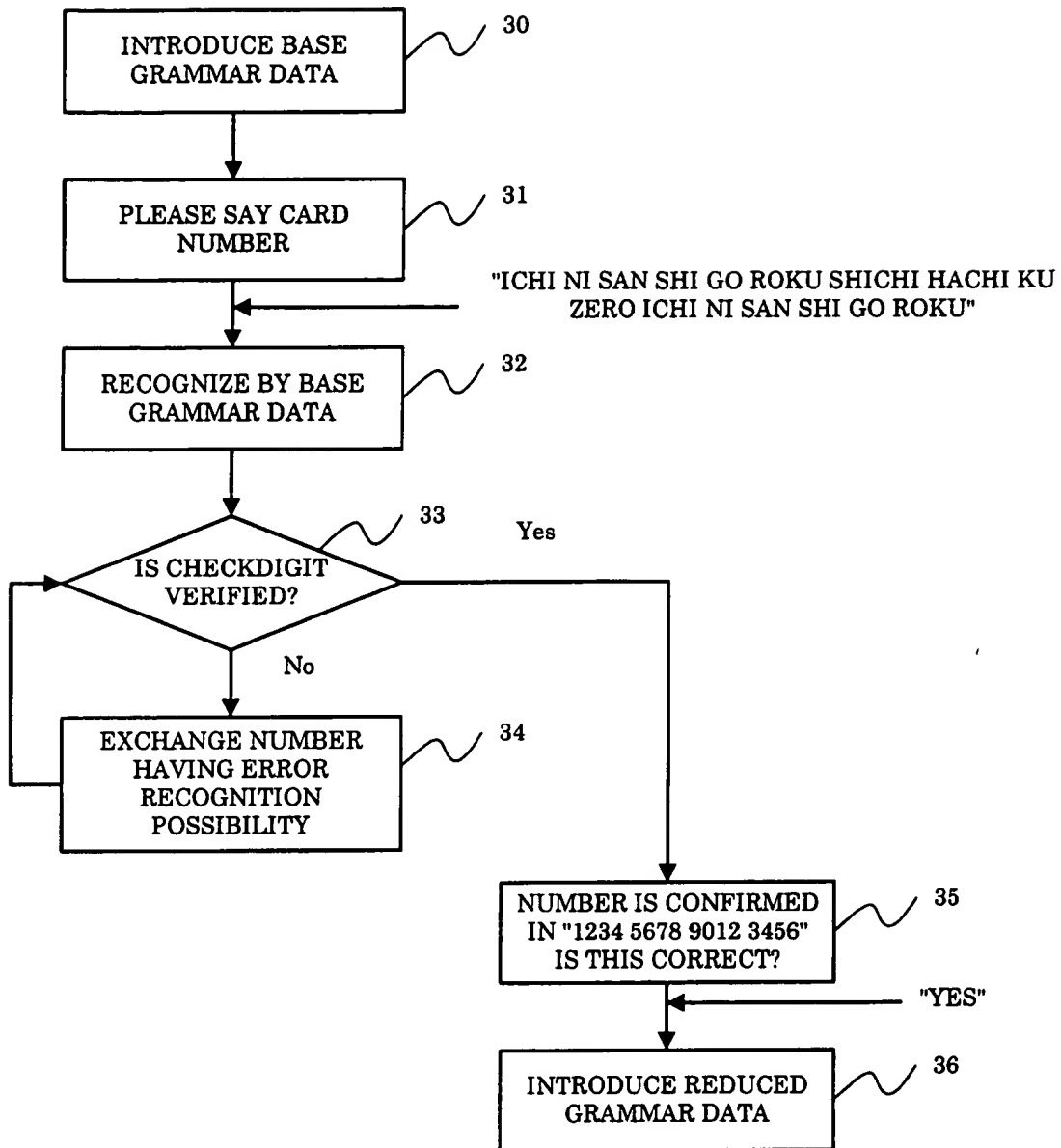


FIG. 7

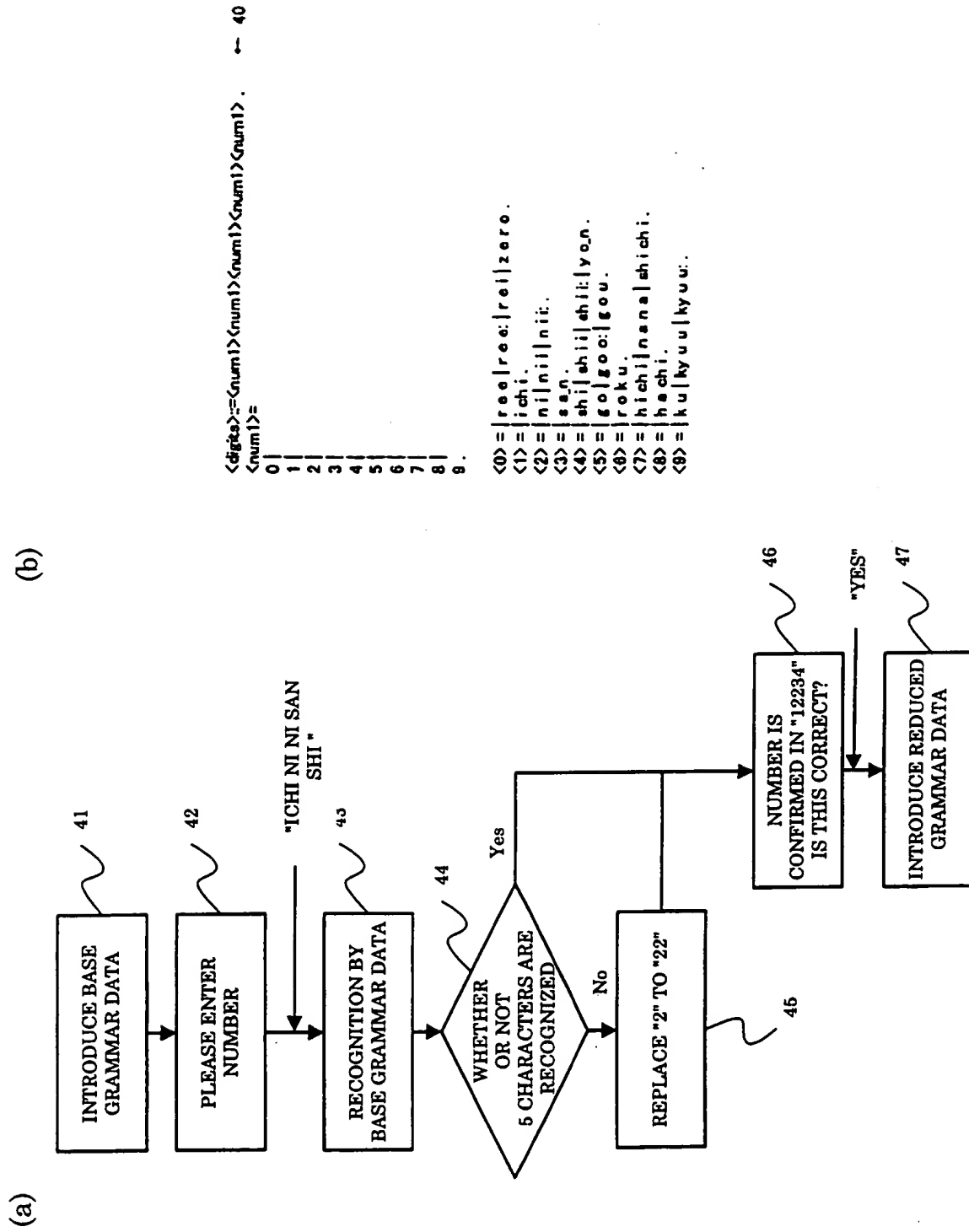


FIG. 8

<digits>::=<num1><num1> .

<num1>=

0 |
1 |
2 |
3 |
4 |
5 |
6 |
7 |
8 |
9 .

<0> = | zero | zero | zero | <rei> .

<1> = | i ch i .

<2> = | ni | nii | ni i .

<3> = | s a _ n .

<4> = | sh i | sh i i | sh i i : | y o _ n .

<5> = | g o | g o o : | g o u .

<6> = | r o k u .

<7> = | h i c h i | n a n a | sh i c h i .

<8> = | h a c h i .

<9> = | k u | k y u u | k y u u : .

<rei> = | r e e | r e e : | r e i .

